Set program rate to 25 mL/hr:

[2] [5] [ENTER]

5.3
PROGRAMMING TEST

5.3.1

Continuing from the "SET RATE" in the previous section, enter the following program:

LOADING DOSE? YES OR NO	[YES]
SET LOAD DOSE 0.0 ML [10.0]	[ENTER]
DEL. LOAD DOSE? YES OR NO	[NO]
TOTAL AMOUNT 0.0 ML [100.0]	[ENTER]
HIGH SENSITIVITY AIR ALARM ON	no response required
PRESS RUN/STOP TO INFUSE	no response required

5.3.2
KEYPAD CHECKOUT

5.3.2.1
PRESS THE [PURGE] KEY

Display should show "PURGE NOW?| YES OR NO." After a few seconds, the display will automatically return to the RUN/STOP screen.

5.3.2.2
PRESS THE [RESET] KEY

Display should show "1 RESET SHIFT| 2 RESET PROGRAM." After a few seconds, the display will return to the RUN/STOP screen.

5.3.2.3
PRESS THE [PRINT] KEY

Display should alternate "PRESS RUN/STOP! TO INFUSE" and "PRESS RUN/STOP! CHECK PRINTER." Press [PRINT] key to return to the RUN/STOP screen.

5.3.2.4
PRESS [ON/OFF] KEY

Display should show "SAVING CURRENT! SETTINGS" and then go blank. Press [ON/OFF] key again to continue. Display should show "UNIT SELF TEST! IN PROGRESS," "EPIDURAL MODE! CONTINUOUS ONLY," a time/date display, and then "CLEAR HIST & Rx?! YES OR NO." Press [NO] key.

Note: The [SILENCE] key may be pressed at any time to silence an audible alarm.

5.3.3
CALLBACK ALARM

Wait approximately three minutes. Pump will generate an audible alarm and the display will alternate "START! TO INFUSE" and "PRESS RUN/STOP! TO INFUSE." Press the [SILENCE] key to quiet the audible alarm.

5.3.4
REVIEW VERIFICATION

Press the [REVIEW/CHANGE] key. The display will show "1 REVIEW! 2 CHANGE." Press the [1] key. The display will show "EPIDURAL MODE! CONTINUOUS ONLY." Press [ENTER] to exit review function.

5.3.5
VERIFY PROGRAM ENTRY

Press the [HISTORY] key to review the program. Verify the following program:

TIME IS XX:XX AM !DAY, MON X, XX	press [HISTORY]
EPIDURAL MODE ! CONTINUOUS ONLY	press [HISTORY]
DELIVERY RATE ! 25.0 ML/HR	press [HISTORY]
LOADING DOSE ! 10.0 ML	press [HISTORY]
TOTAL AMOUNT ! 100.0 ML	press [HISTORY]
HIGH SENSITIVITY! AIR ALARM ON	press [HISTORY]
AMOUNTS CLEARED! XX:XX AM MON X to return to RUN/STOP screen.	press [ENTER]

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5.4
DELIVERY TEST

5.4.1

Insert a primed set with reservoir and burette to measure liquid delivered.

5.4.2

Set the burette level to zero to begin testing.

5.4.3

Verify the program entry (see previous section).
Press [RUN/STOP] key to begin delivery.

5.4.4

Press [YES], then press [LOADING DOSE] to deliver the loading dose. The pump will begin delivery. Pump will require about five minutes to deliver the 10 mL.

5.4.5

Observe that the cartridge rotor turns clockwise when viewed from the right side of the pump looking down on the outside of the motor frame.

5.4.6

When the loading dose delivery (10 mL) is complete, press [RUN/STOP] to return to the STOP mode.

5.4.7

Measure the total amount of fluid delivered to the burette. The amount should be between 9.5 and 10.5 mL to be within the 5% system tolerance.

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5.5
OCCLUSION TEST

5.5.1

Press the [RUN/STOP] key to enter the RUN mode.

5.5.2

Occlude the distal end of the administration set. Allow the occlusion alarm to occur [wait up to one minute). Remove the occlusion to clear the alarm. Press [RUN/STOP] to return to the STOP mode.

5.6
BOLUS AND AIR ALARM TESTS

5.6.1
REPROGRAM THE PUMP FOR BOLUS DELIVERY

Press the REVIEW/CHANGE key

1 REVIEW ! 2 CHANGE	[2]
1 CHANGE PROGRAM ! 2 NEW PROGRAM	[2]
CLEAR HISTORY? YES OR NO	[YES]
EPIDURAL MODE ! YES OR NO	[YES]
1 CONT 3 BOTH ! 2 BOLUS ONLY	[3]
SELECT ML ONLY ! YES OR NO	[YES]
SET RATE ! 0.0 ML/HR	[25.0] [ENTER]
LOADING DOSE? ! YES OR NO	[NO]
SET BOLUS DOSE ! 0.0 ML	[5] [ENTER]
BOLUS LOCKOUT ! 0 MINUTES	[5] [ENTER]
4 HOUR LIMIT? ! YES OR NO	[NO]
TOTAL AMOUNT ! 0.0 ML	[15.0] [ENTER]

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5.6.2
BOLUS DELIVERY

Disconnect the upstream (proximal) end of the tubing from the liquid reservoir. Attach the external bolus cord. Press [RUN/STOP] to begin program. Press the [BOLUS] key to begin a bolus delivery.

5.6.3
AIR DETECTION TEST

Allow the tubing to fill with air. Ensure that the Air-In-Line Alarm occurs. Silence the alarm by pressing the [RUN/STOP] key.

5.7
KEYPAD LOCK AND UNLOCK

5.7.1
LOCK THE KEYPAD

From the STOP mode, lock the keypad by pressing the [ENTER] key and then the [DOWN-ARROW] key three times at about one second intervals. Three audible beeps will sound and the display will read "PRESS RUN/STOP! KEYPAD LOCKED." Press the [RUN/STOP] key. Verify that two dashes ("- -") are displayed after the total volume display on the top line of the display. (These dashes indicate a locked keypad.) Return to the STOP mode by pressing the [RUN/STOP] key.

5.7.2
UNLOCK THE KEYPAD

From the STOP mode, unlock the keypad by pressing the [ENTER] key and then the [UP-ARROW] key two times at about one second intervals. Three audible beeps will sound and the display will read "PRESS RUN/STOP! KEYPAD UNLOCKED." Press the [RUN/STOP] key to verify that the two dashes no longer appear on the display.

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